Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

SBRNO: Ao/21-08-18

Bill No. First & Part Bill (For other works) Date.....2018

Division: **BBMP. Byatarayanapura Division** SUB-Division: **BBMP, Vidyaranyapura**

Bill Received No: Dated : Divisional / Sub-Divisional Cash Book Voucher No..... Dated.....

Work Code: 010-18-000050

Schedule Docket No: Head of Account: **P3158** **Est. Cost: 970.00 Lakhs** **D.R.No. :**

Name of the Work (as per sanctioned estimate: **Package No-04 (Package consists of 28 works)**

Name of the Contractor & Address: **M/s Ram and Company, Sri C.R. Girish, No.12, Patel Pillegowda Layout, Ramachandrapura, Bangalore - 560 013**

Reference to Work order No: BBMP/EE/BTP/WO/129/2017-18 **Date: 27.03.2018**

Certified that the measurements were taken by me on 31/07/2018 and recorded on pages 354040 to 354043 of Measurement Book No 3541 and the work is satisfactorily executed.

Contractor **Officer- in charge of work.**

Certified that the measurement were checked by me on..... and found correct. The work is satisfactorily executed.

Certified that the Quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Sub-Division Officer

II Memorandum of payment

1)	Total value of work done or supplies made as per the account within	Total: Amount 8,46,98,030-00
2)	Deduct amount to be held in reserve being ..... percent Rs.	IT - 16,93,961-00
3)	" Balance	Cess - 8,46,980-00
4)	Deduct payments:	CBF - 84,698-00
	a. Amount of previous payment as in the office cash book voucher No. ..... Dated ..... S D No..... Amount adjusted towards cash advance recovery of	LR - 1,01,6,376-00
	b) Payments now made: Cost store or other materials supplied. recovery of amount creditable of this/other work. Amount paid on this bill Cheque/ Cash.	Adj 36,42,015-00
5)	Balance being unpaid value of work done held in reserve.	Cheque 8,10,56,015-00
6)	Deduct cash advance made on the office Cash Book Voucher No..... Dated ..... less adjustments.	
7)	Net amount due to or from Contractor. Unadiusted items	
8)	Advance to contractor for materials brought to site (as detailed) within	
9)	value of Government materials supplied.	Total amount adjusted -

Contractor's Signature

Received Rs. .....(in words).....

.....

By Cash & by adjustment of Payment as per memorandum (in final settlement of all demands)

8,46,98,030-00 (for use in the Office)

36,42,015-00

8,10,56,015-00

Rs. Eight Crore ten lakhs fifty six thousand fifteen only.

Witness :
1
2

stamp

Dated Signature of Contractor

Paid by me by Cheque No. ..... Dated:.....
Cash Rs. ..... Dated:.....
Dated.....

Initials of Officer making Payment

Executive Engineer

21/8

Sl. No.	Description of Work	Unit
1	Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, roads drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up lift 1.5, excavated surface leveled and neatly dressed disposed earth to be leveled after breaking of clods and neatly dressed as per specifications and as per the directions of the Engineer-in-charge of the work .	Cum
2	Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications and as per the directions of the Engineer-in-charge of the work .(Road)	Cum
3	Removing B.S.slab of Drain and stacking as per the directions of the Engineer-in-charge of the work	Sqm
4	Removing and refixing stone slabs of drains and pointing in CM (1:3) as per the directions of the Engineer-in-charge of the work .	Sqm
5	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete as per the directions of the Engineer-in-charge of the work .	Sqm
6	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete as per the directions of the Engineer-in-charge of the work .(Road)	Sqm
7	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Cum
8	Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications and as per the directions of the Engineer-in-charge of the work	Cum
9	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms as per the directions of the Engineer-in-charge of the work .	Cum
10	Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) as per the directions of the Engineer-in-charge of the work	Cum
11	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications and as per the directions of the Engineer-in-charge of the work(road)	Sqm
11(a)	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications and as per the directions of the Engineer-in-charge of the work (PLAYGROUND)	Sqm
12	Providing,laying, spreading and compacting crushed stone aggregates of granite/trap/ basalt to wet mix macadam specification including pre mixing the Material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density. complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Cum
13	Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Sqm
14	Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications and as per the directions of the Engineer-in-charge of the work .	Sqm

Tender Quantity			Previous Measurement		Present Measurement		Total Upto Date	
Rates	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
166.42	9906.32	1648609.54	0.00	0.00	8636.033	1437208.54	8636.03	1437208.54
5159.02	251.25	1296189.07	0.00	0.00	251.25	1296204 1296189.07	251.25	1296204 1296189.07
65.72	2920.32	191923.13	0.00	0.00	2477.47	162819.10	2477.47	162819.10
80.56	2724.18	219459.67	0.00	0.00	2540.95	204699.21	2540.95	204699.21
665.68	553.03	368140.64	0.00	0.00	522.49	347812.81	522.49	347812.81
825.74	2691.77	2222702.78	0.00	0.00	2253.40	1860723 1860724.37	2253.40	1860723 1860724.37
86.92	3374.36	293299.07	0.00	0.00	3482.52	302700.74	3482.52	302700.74
48.76	681.41	33225.38	0.00	0.00	34.65	1689.53	34.65	1689.53
122.96	15622.20	1920905.27	0.00	0.00	13718.43	1686817.78	13718.43	1686817.78
320.12	1507.20	482485.91	0.00	0.00	899.28	287877.56	899.28	287877.56
5.30	6102.35	32342.43	0.00	0.00	3670.65	19454.46	3670.65	19454.46
5.40	3120.20	16849.06	0.00	0.00	3120.20	16849.06	3120.20	16849.06
1000 - 1768.08	4822.70	8526928.06	0.00	0.00	3881.71	3881710 - 6863174.71	3881.71	3881710 - 6863174.71
30.74	7508.20	230802.07	0.00	0.00	7321.45	225061.37	7321.45	225061.37
13.78	32529.78	448260.44	0.00	0.00	28463.22	392223.18	28463.22	392223.18

15	Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Sqm
16	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixd material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.4 % VG-30 Bitumen as per the directions of the Engineer-in-charge of the work .	Cum
17	Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Sqm
18	Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Sqm
19	Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction complete in all respects as per specifications and as per the directions of the Engineer-in-charge of the work .	Cum
20	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Sqm
21	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specification and as per the directions of the Engineer-in-charge of the work .	Cum
22	Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Cum
23	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Cum
24	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Conrete Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms and 2Ltr of Primer per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Sqm

27.56	32529.78	896520.87	0.00	0.00	28463.22	784446.35	28463.22	784446.35
5820 5730.36	1725.14	9885683.92	0.00	0.00	1494.32	8696942 8562992 8562986.19	1494.32	8696942 8562992 8562986.19
3.18	109978.38 40	349731.24	0.00	0.00	91822.89	291996.80	91822.89	291996.80
12.72	109978.38 40	1398924.97	0.00	0.00	91822.89	1167987.19	91822.89	1167987.19
10200 8118.54	4827.10	39188990.08	0.00	0.00	4028.26	41088252 32703590 32703556.32	4028.26	41088252 32703590 32703556.32
542.72	4065.89	2206637.65	0.00	0.00	3411.31	1851386.16	3411.31	1851386.16
827.86	1660.11	1374342.64	0.00	0.00	1513.83	1253239 1253241.17	1513.83	1253239 1253241.17
3986.66	1660.38	6619389.67	0.00	0.00	1513.83	6035126 6035134.48	1513.83	6035126 6035134.48
6217.96	1902.31	11828488.42	0.00	0.00	1748.43	10871667.63	1748.43	10871667.63
685.82	467.67	320734.70	0.00	0.00	421.05	288765 288761.77	421.05	288765 288761.77

25	Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of thorney jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Sqm
26	Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications.(which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) as per the directions of the Engineer-in-charge of the work .	Cum
31	Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces complete as per specifications	Sqm
62	Providing Plastic to Bituminous concrete @ 8%	Kg
63	Providing and laying reinforced cement precast slab of mix CC 1:1.5:3 using 20mm down size graded Granite metal using HYSD 10mm dia steel @10mm c/c both ways	Sqm
	Grand Total Amount	

Assistant Engineer

9.72	3120.20	30328.30	0.00	0.00	3120.20	30328.30	3120.20	30328.30
326.16	624.04	203536.61	0.00	0.00	624.04	203536.61	624.04	203536.61
71.28	147.42	10508.10	0.00	0.00	147.42	10508.10	147.42	10508.10
28.62	45181.64	1293098.52	0.00	0.00	37704.38	1079099.40	37704.38	1079099.40
1957	28.01	54815.57	0.00	0.00	28.01	54807.74	28.01	54807.74
		93593853.78				**80294745.71**		**80294745.71**

R:8-46,98,030-00

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Assistant Executive Engineer
BBMP Vidyaranyapura Sub Division,
Bangalore